

18 shows that with WGTV-DT, populations of 2,973 people are receiving DTV only interference and the interference free population is 765,768. Therefore, WGTV-DT causes [765,787 (IX free without WGTV-DT) – 765,768 (IX free with WGTV-DT) = 19] interference to a total of 19 people. Exhibits 17 and 18 calculated the WTVY-TV baseline population to be 830,837. Therefore, the total amount of unique interference caused by WGTV-DT is [19/830,837] 0.002% ≤ 2.0% and thus, all requirements under the definition of *de minimis* have been met. Exhibit 18 concludes that the total interference caused to WTVY-TV from all stations including WGTV-DT is [2,954/830,837] 0.36% ≤ 10% and thus, all requirements under the definition of the 10% *de-minimis* standard have been met.

Exhibits 19 and 20 are studies showing interference from all stations to the WSMV-TV (lic) station without and with WGTV-DT respectively. Exhibit 19 shows that without WGTV-DT, populations of 290 people are receiving DTV only interference and the interference free population is 1,571,884. Exhibit 20 shows that with WGTV-DT, populations of 449 people are receiving DTV only interference and the interference free population is 1,571,725. Therefore, WGTV-DT causes [1,571,884 (IX free without WGTV-DT) – 1,571,725 (IX free with WGTV-DT) = 159] interference to a total of 159 people. Exhibits 19 and 20 calculated the WSMV-TV baseline population to be 1,693,853. Therefore, the total amount of unique interference caused by WGTV-DT is [159/1,693,853] 0.009% ≤ 2.0% and thus, all requirements under the definition of *de minimis* have been met. Exhibit 20 concludes that the total interference caused to WSMV-TV from all stations including WGTV-DT is [290/1,693,853] 0.017% ≤ 10% and thus, all requirements under the definition of the 10% *de-minimis* standard have been met.

Exhibits

Exhibits 1 and 2 represent WGTV-DT's administration data, antenna and antenna structure specifications as per §V-D item 9 in the DTV Broadcasting Engineering Data portion of the application regarding directional antennas and beam tilt.

Exhibit 3 depicts the profile view of the proposed antenna on the antenna structure with all the appropriate elevations as per §V-D item 8 in the DTV Broadcasting Engineering Data portion of the application regarding supporting structures and elevations.

Exhibits 4 and 5 display the azimuth pattern and the azimuth pattern tabulation respectively.

Exhibits 6 and 7 display the elevation pattern and the elevation pattern tabulation respectively.

Exhibits 8 and 9 display the ERP/dBk pattern and tabulation respectively.

Exhibit 10 depicts the site location of the proposed WGTV-DT site on a 7.5-Minute (Series) Topographic Map as per §V-D item 17 in the DTV Broadcasting Engineering Data portion of the application regarding topographic maps.

Exhibit 11 depicts the proposed WGTV-DT coverage contour, boundaries of the principal community to be served, and the proposed transmitting location with radials every 45° as per §V-D item 18 in the DTV Broadcasting Engineering Data portion of the application regarding Sectional Aeronautical Charts.

Exhibits 12 through 20 are detailed interference studies and demographic results of WGTV-DT to all applicable stations.

Environmental Impact

The proposed construction will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The DTV transmitter, 1-5/8 inch (50-ohm) transmission line and antenna system will produce an ERP of 3kW. Assuming that the maximum lobe of radiation is oriented at the base of the tower, it will produce a power density six feet above the ground of 0.016 mW/cm^2 . This is only 1.60% of the maximum permissible exposure (MPE) authorized by the American National Standards Institute (ANSI). Since the proposed operation of WGTV-DT Channel 4 will not exceed 5.0% of the MPE limit for population/uncontrolled at any point on the ground, WGTV-DT is not considered to be a "significant contributor" to the RF exposure environment pursuant to OET Bulletin 65, Edition 97-01. Therefore, contributions of exposure from other sources were not accounted for in this analysis. It is safe to conclude that the emissions will be insignificant and well within the maximum allowable requirements.

If other antennas are placed on the tower in the future, the applicant will cooperate with those users by reducing or completely terminating the power to the antenna when maintenance workers are in danger from the electromagnetic radiation emanating from the antenna. The tower will be enclosed within a fence with warning signs posted at the locked gate.

Certification

The applicant accepts full responsibility for the elimination of any objectionable interference including that caused by intermodulation to facilities in existence or authorized prior to the grant of this application.

This technical statement was prepared by William T. Godfrey, Telecommunications Consultant with Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida and has been working in the field of radio and television broadcast consulting since 1998. He graduated from the University of North Florida with a Bachelor of Arts degree in Criminal Justice and a minor in Mathematics and received a Commission in the Aviation Branch of the United States Army in 1993. As a Professional in the field of Telecommunications and as a Captain in the United States Army, he states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.


KESSLER AND GEHMAN ASSOCIATES, INC.


WILLIAM T. GODFREY
Telecommunications Consultant

6 February, 2001

WGTV-DT
ATHENS, GA

ENGINEERING SPECIFICATIONS

A. Transmitter Site:

Geographic coordinates determined by licensed surveyor:

North Latitude	33° 48' 18"
West Longitude	84° 08' 40"

Transmitter Site Address: **2 Robert E. Lee Blvd. atop Stone Mountain
Stone Mountain, Georgia**

B. Main Studio Site Address: 260 14th Street N.W., Atlanta, GA 30318.

C. Proposed Facility:

DTV Channel	Number	4
	Frequency	66-72 MHz

D. Antenna Height:

Height of Site Above Mean Sea Level (AMSL)	496.0 M
Overall Height of Structure Above Ground (including all appurtenances)	123.0 M
Overall Height of Structure Above Mean Sea Level (including all appurtenances)	619.0 M
Height of Site Above Average Terrain	219.0 M
Antenna Height Radiation Center (R/C) Above Ground	85.0 M
Antenna Height R/C Above Mean Sea Level	581.0 M
Average of All Non-Odd Radials	277.0 M
Antenna Height R/C Above Average Terrain	304.0 M

E. System Parameters – Horizontal Polarization:

Transmitter Power Required	0.39kW
Maximum Power Input to Antenna	0.34 kW
Total System Loss	0.56 dB
Transmission Line Efficiency	87.9%
Maximum Antenna Gain in Beam Maximum	9.40 dB
Maximum Antenna Gain in Horizontal Plane	9.34 dB
Maximum Effective Radiated Power In Beam Maximum	4.77 dBk
Maximum Effective Radiated Power In Horizontal Plane	3.0 kW
	4.71 dBk
	2.96 kW

**WGTV-DT
ATHENS, GA**

**DATA FOR PROPOSED DTV
DIRECTIONAL TRANSMITTING ANTENNA**

- A. **Antenna:** Dielectric THB-C3-5/15-1, Circularly Polarized, Directional (Cardioid), Side-mount Antenna.
- B. **Electrical Beam Tilt:** 0.5°
- C. **Mechanical Beam Tilt:** None.
- D. **Maximum Power Gain** **Horizontal Polarization**

Maximum:	8.71 (9.40 dB)
Horizontal:	8.59 (9.34 dB)
- E. **Length:** 66.0 feet (20.1 meters) not including appurtenances.
- F. **Average Power DTV:** 0.39kW
- G. **Null Fill:** 7.7%
- H. **Transmission Line:** 1 5/8" 50-ohm Air Dielectric Coax.
- I. **Transmission Line Loss:** 0.151dB/100-feet
- J. **Total Transmission Line:** 370 feet
- K. **Transmission Line Attenuation:** 0.56 dB

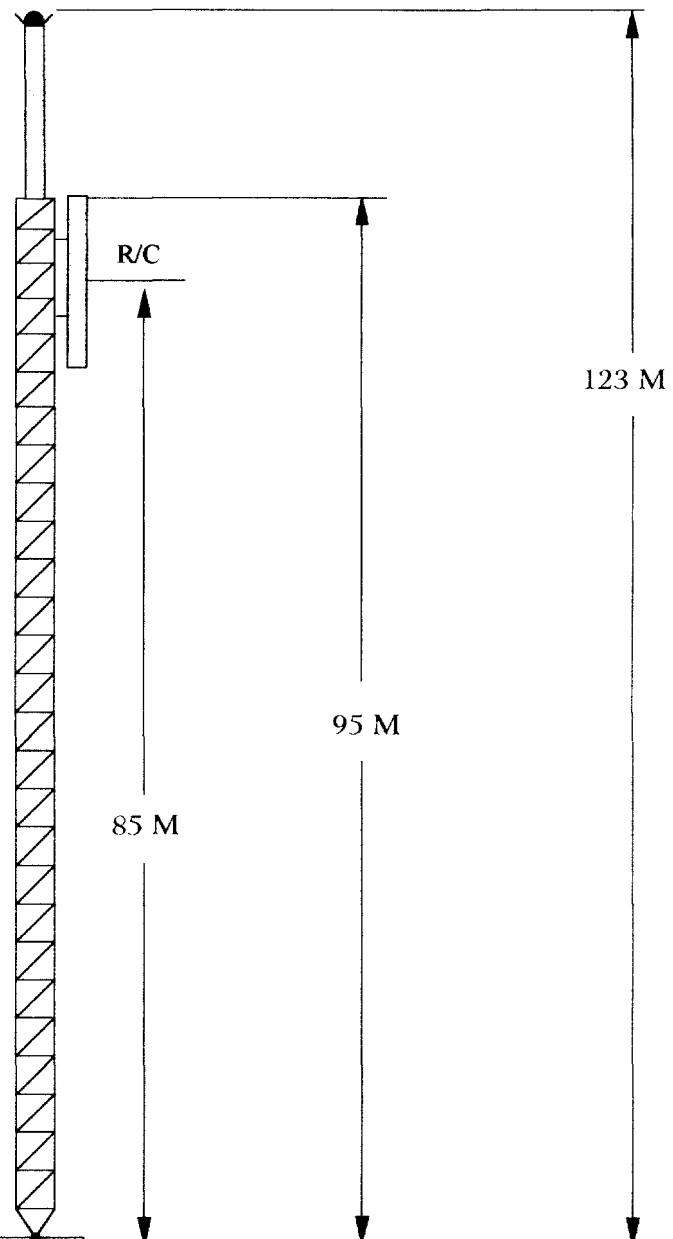
ELEVATION VIEW

EXISTING
ANDREW
ATW16V3-DTO/S-8
ANTENNA

PROPOSED
DIELECTRIC
THB-C3-5/15-1
ANTENNA

GUYED TOWER AND
ANTENNA TO BE
LIGHTED AND PAINTED
IN ACCORDANCE WITH
FCC REQUIREMENTS

SITE ELEVATION: 496 M AMSL



OVERALL HEIGHT AGL: 123 M
OVERALL HEIGHT AMSL: 619 M
DTV RADIATION CENTER AGL: 85 M
DTV RADIATION CENTER AMSL: 581 M
DTV RADIATION CENTER AAT: 304 M
AVERAGE TERRAIN: 277 M

COORDINATES NAD 27:
N. LATITUDE 33° 48' 18"
W. LONGITUDE 84° 08' 40"

Antenna Structure Registration Number

1018706

NOTE: NOT TO SCALE

KESSLER & GEHMAN
TELECOMMUNICATIONS CONSULTING ENGINEERS
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

1/23/2001

WGTV-DT
ATHENS, GEORGIA

EXHIBIT 3

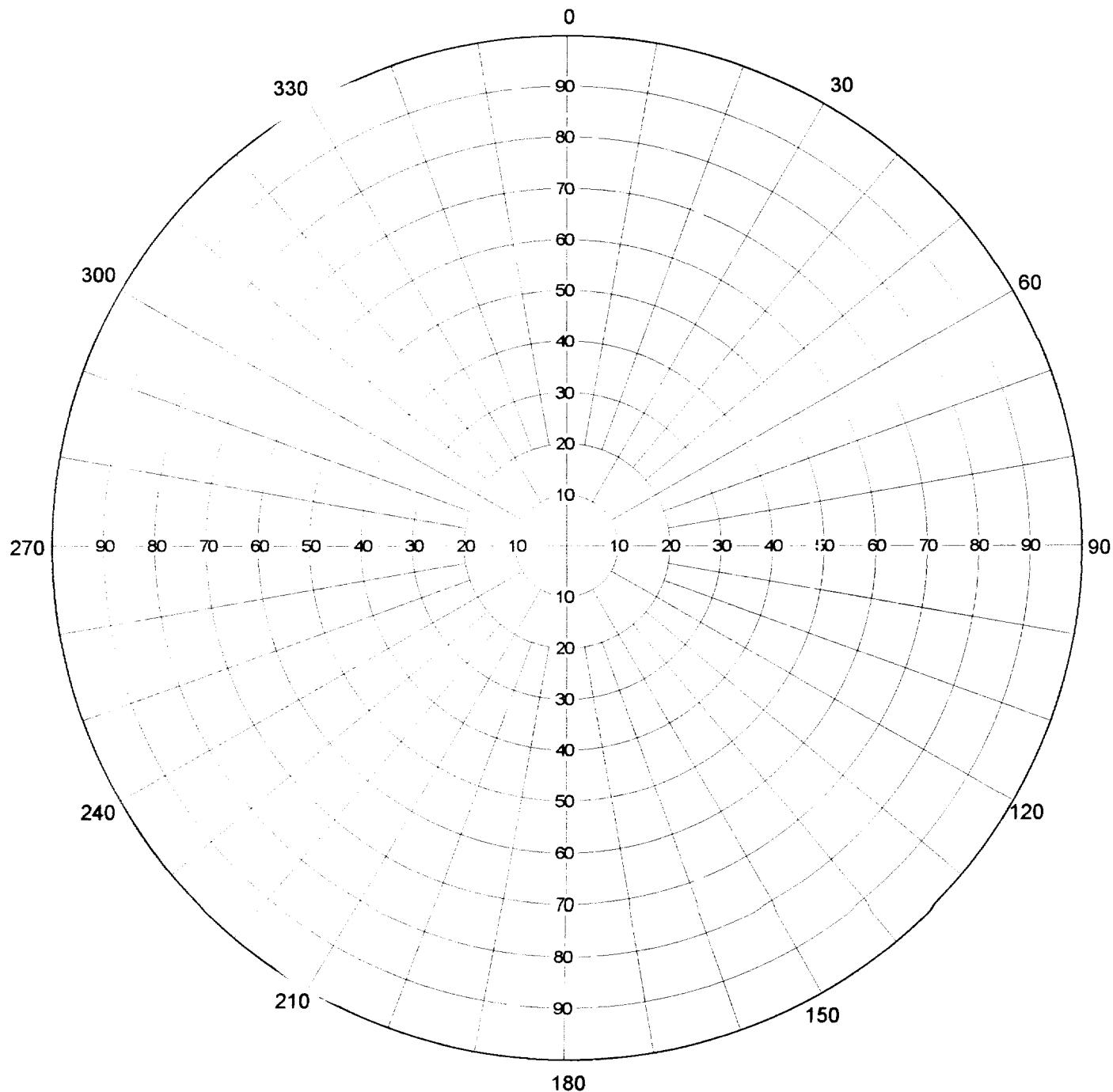
Date **23 Jan 2001**
Call Letters **WGTV-DT** Channel **4**
Location **STONE MOUNTAIN**
Customer **GPTC**
Antenna Type **THB-C3-5/15-1**

AZIMUTH PATTERN

RMS Gain at Main Lobe
Calculated / Measured

1.70 (2.30 dB)
Calculated

Frequency **69 MHz**
Drawing # **THB-C3**



Remarks:

EXHIBIT 4

Date **23 Jan 2001**
 Call Letters **WGTV-DT** Channel **4**
 Location **STONE MOUNTAIN**
 Customer **GPTC**
 Antenna Type **THB-C3-5/15-1**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **THB-C3**

Angle	Field																
0	0.843	45	0.486	90	0.493	135	0.486	180	0.843	225	0.960	270	0.866	315	0.960		
1	0.833	46	0.474	91	0.492	136	0.498	181	0.853	226	0.953	271	0.865	316	0.965		
2	0.822	47	0.464	92	0.492	137	0.510	182	0.862	227	0.946	272	0.864	317	0.969		
3	0.811	48	0.453	93	0.491	138	0.522	183	0.871	228	0.940	273	0.863	318	0.973		
4	0.800	49	0.444	94	0.491	139	0.534	184	0.881	229	0.933	274	0.861	319	0.977		
5	0.790	50	0.435	95	0.491	140	0.546	185	0.890	230	0.926	275	0.858	320	0.982		
6	0.781	51	0.422	96	0.489	141	0.558	186	0.897	231	0.919	276	0.854	321	0.984		
7	0.774	52	0.412	97	0.488	142	0.570	187	0.904	232	0.912	277	0.850	322	0.987		
8	0.768	53	0.404	98	0.487	143	0.582	188	0.911	233	0.905	278	0.845	323	0.990		
9	0.762	54	0.398	99	0.485	144	0.593	189	0.918	234	0.898	279	0.840	324	0.992		
10	0.758	55	0.396	100	0.484	145	0.604	190	0.925	235	0.891	280	0.834	325	0.995		
11	0.752	56	0.401	101	0.482	146	0.614	191	0.932	236	0.882	281	0.829	326	0.996		
12	0.746	57	0.406	102	0.480	147	0.623	192	0.939	237	0.873	282	0.824	327	0.997		
13	0.741	58	0.411	103	0.478	148	0.632	193	0.946	238	0.864	283	0.818	328	0.998		
14	0.736	59	0.416	104	0.476	149	0.641	194	0.953	239	0.855	284	0.813	329	0.999		
15	0.731	60	0.421	105	0.474	150	0.649	195	0.960	240	0.845	285	0.809	330	1.000		
16	0.726	61	0.425	106	0.471	151	0.657	196	0.965	241	0.835	286	0.804	331	0.999		
17	0.721	62	0.429	107	0.468	152	0.664	197	0.969	242	0.824	287	0.801	332	0.998		
18	0.717	63	0.433	108	0.464	153	0.671	198	0.973	243	0.814	288	0.798	333	0.997		
19	0.712	64	0.438	109	0.461	154	0.678	199	0.977	244	0.803	289	0.796	334	0.996		
20	0.708	65	0.442	110	0.458	155	0.684	200	0.982	245	0.792	290	0.795	335	0.995		
21	0.704	66	0.445	111	0.455	156	0.689	201	0.984	246	0.788	291	0.790	336	0.992		
22	0.699	67	0.448	112	0.452	157	0.694	202	0.987	247	0.786	292	0.787	337	0.990		
23	0.694	68	0.452	113	0.448	158	0.699	203	0.990	248	0.787	293	0.786	338	0.987		
24	0.689	69	0.455	114	0.445	159	0.704	204	0.992	249	0.790	294	0.788	339	0.984		
25	0.684	70	0.458	115	0.442	160	0.708	205	0.995	250	0.795	295	0.792	340	0.982		
26	0.678	71	0.461	116	0.438	161	0.712	206	0.996	251	0.796	296	0.803	341	0.977		
27	0.671	72	0.464	117	0.433	162	0.717	207	0.997	252	0.798	297	0.814	342	0.973		
28	0.664	73	0.468	118	0.429	163	0.721	208	0.998	253	0.801	298	0.824	343	0.969		
29	0.657	74	0.471	119	0.425	164	0.726	209	0.999	254	0.804	299	0.835	344	0.965		
30	0.649	75	0.474	120	0.421	165	0.731	210	1.000	255	0.809	300	0.845	345	0.960		
31	0.641	76	0.476	121	0.416	166	0.736	211	0.999	256	0.813	301	0.855	346	0.953		
32	0.632	77	0.478	122	0.411	167	0.741	212	0.998	257	0.818	302	0.864	347	0.946		
33	0.623	78	0.480	123	0.406	168	0.746	213	0.997	258	0.824	303	0.873	348	0.939		
34	0.614	79	0.482	124	0.401	169	0.752	214	0.996	259	0.829	304	0.882	349	0.932		
35	0.604	80	0.484	125	0.396	170	0.758	215	0.995	260	0.834	305	0.891	350	0.925		
36	0.593	81	0.485	126	0.398	171	0.762	216	0.992	261	0.840	306	0.898	351	0.918		
37	0.582	82	0.487	127	0.404	172	0.768	217	0.990	262	0.845	307	0.905	352	0.911		
38	0.570	83	0.488	128	0.412	173	0.774	218	0.987	263	0.850	308	0.912	353	0.904		
39	0.558	84	0.489	129	0.422	174	0.781	219	0.984	264	0.854	309	0.919	354	0.897		
40	0.546	85	0.491	130	0.435	175	0.790	220	0.982	265	0.858	310	0.926	355	0.890		
41	0.534	86	0.491	131	0.444	176	0.800	221	0.977	266	0.861	311	0.933	356	0.881		
42	0.522	87	0.491	132	0.453	177	0.811	222	0.973	267	0.863	312	0.940	357	0.871		
43	0.510	88	0.492	133	0.464	178	0.822	223	0.969	268	0.864	313	0.946	358	0.862		
44	0.498	89	0.492	134	0.474	179	0.833	224	0.965	269	0.865	314	0.953	359	0.853		

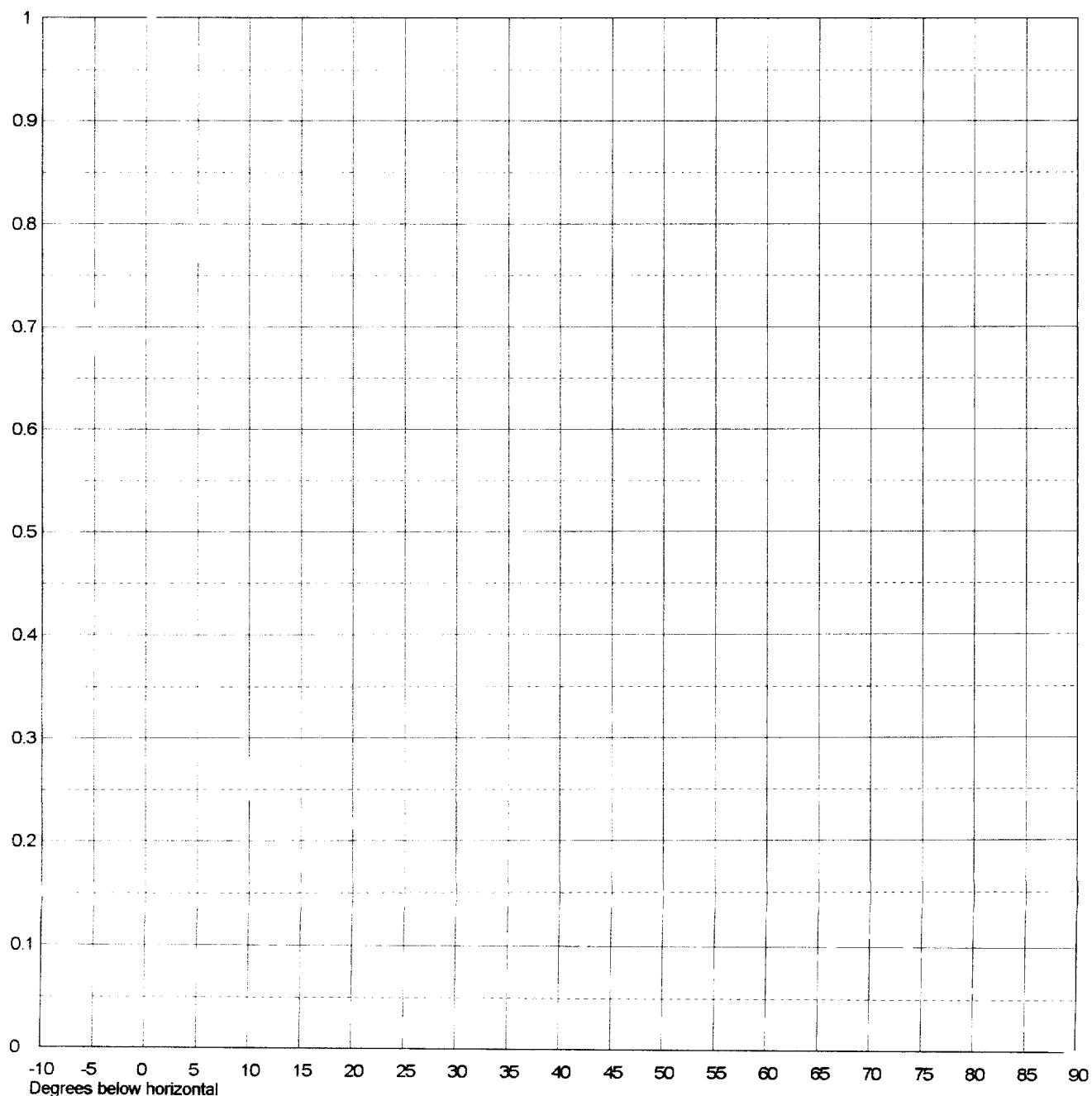
Remarks:

EXHIBIT 5

Date **23 Jan 2001**
Call Letters **WGTV-DT** Channel **4**
Location **STONE MOUNTAIN**
Customer **GPTC**
Antenna Type **THB-C3-5/15-1**

ELEVATION PATTERN

RMS Gain at Main Lobe	5.1 (7.08 dB)	Beam Tilt	0.50 Degrees
RMS Gain at Horizontal	5.1 (7.08 dB)	Frequency	69.00 MHz
Calculated / Measured	Calculated	Drawing #	05H051050-90



Remarks:

EXHIBIT 6

Date **24 Jan 2001**
 Call Letters **WGTV-DT** Channel **4**
 Location **STONE MOUNTAIN**
 Customer **GPTC**
 Antenna Type **THB-C3-5/15-1**

TABULATION OF ELEVATION PATTERN

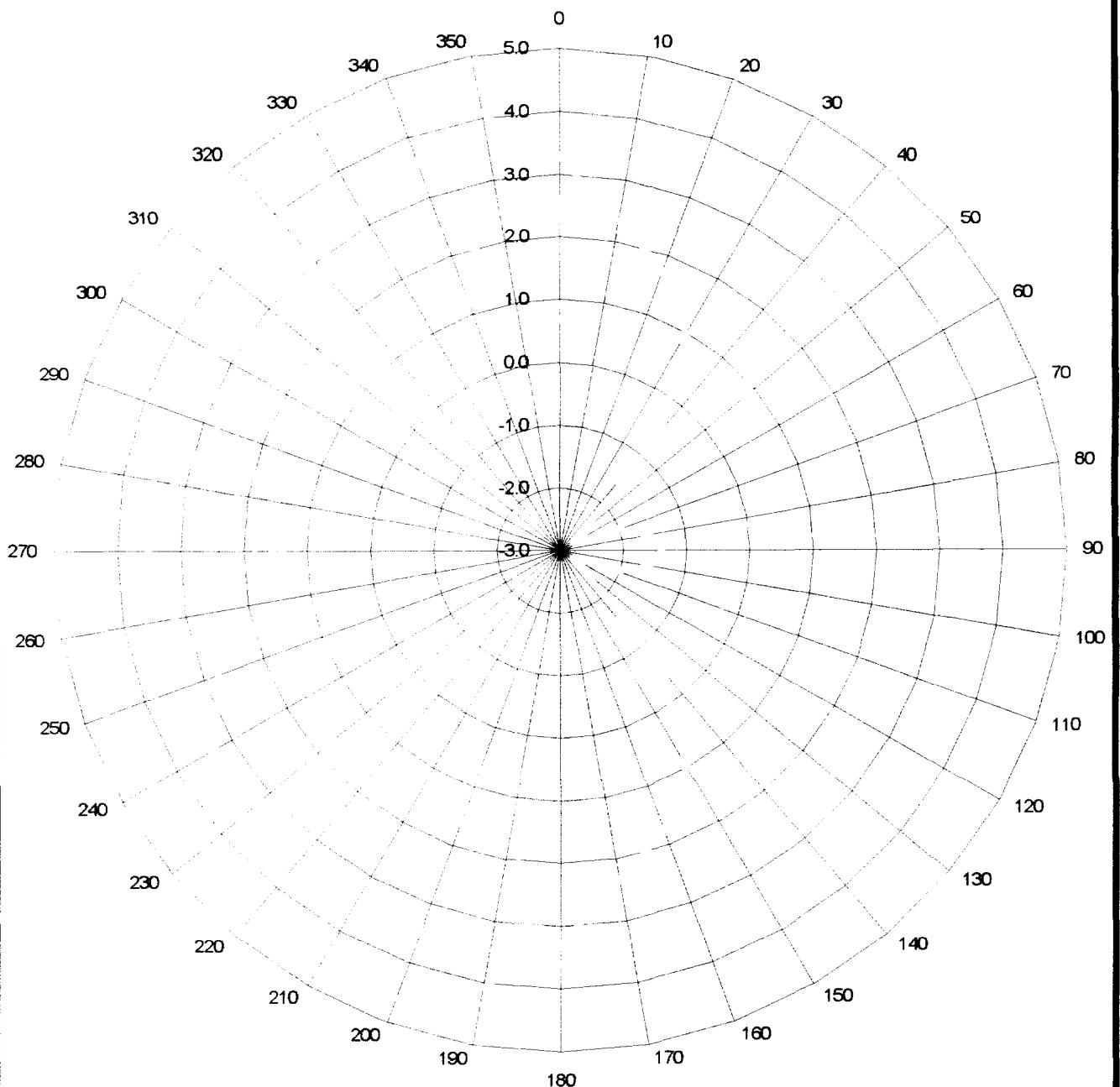
Elevation Pattern Drawing # **05H051050-90**

Angle	Field										
-10.0	0.138	2.4	0.960	10.6	0.202	30.5	0.138	51.0	0.139	71.5	0.108
-9.5	0.189	2.6	0.951	10.8	0.183	31.0	0.142	51.5	0.133	72.0	0.107
-9.0	0.243	2.8	0.942	11.0	0.165	31.5	0.144	52.0	0.126	72.5	0.105
-8.5	0.299	3.0	0.931	11.5	0.123	32.0	0.144	52.5	0.118	73.0	0.103
-8.0	0.356	3.2	0.920	12.0	0.091	32.5	0.142	53.0	0.110	73.5	0.101
-7.5	0.414	3.4	0.908	12.5	0.077	33.0	0.138	53.5	0.102	74.0	0.099
-7.0	0.471	3.6	0.896	13.0	0.084	33.5	0.133	54.0	0.093	74.5	0.096
-6.5	0.528	3.8	0.882	13.5	0.106	34.0	0.126	54.5	0.084	75.0	0.093
-6.0	0.584	4.0	0.868	14.0	0.131	34.5	0.117	55.0	0.075	75.5	0.090
-5.5	0.638	4.2	0.853	14.5	0.156	35.0	0.108	55.5	0.065	76.0	0.087
-5.0	0.690	4.4	0.838	15.0	0.179	35.5	0.097	56.0	0.056	76.5	0.084
-4.5	0.739	4.6	0.822	15.5	0.198	36.0	0.085	56.5	0.047	77.0	0.081
-4.0	0.786	4.8	0.805	16.0	0.215	36.5	0.073	57.0	0.038	77.5	0.077
-3.5	0.828	5.0	0.788	16.5	0.227	37.0	0.060	57.5	0.030	78.0	0.074
-3.0	0.867	5.2	0.770	17.0	0.236	37.5	0.047	58.0	0.023	78.5	0.070
-2.8	0.881	5.4	0.752	17.5	0.241	38.0	0.035	58.5	0.019	79.0	0.066
-2.6	0.895	5.6	0.733	18.0	0.243	38.5	0.026	59.0	0.020	79.5	0.062
-2.4	0.908	5.8	0.714	18.5	0.241	39.0	0.023	59.5	0.024	80.0	0.059
-2.2	0.920	6.0	0.694	19.0	0.236	39.5	0.029	60.0	0.030	80.5	0.055
-2.0	0.931	6.2	0.674	19.5	0.228	40.0	0.039	60.5	0.037	81.0	0.051
-1.8	0.941	6.4	0.654	20.0	0.217	40.5	0.052	61.0	0.044	81.5	0.047
-1.6	0.951	6.6	0.633	20.5	0.204	41.0	0.064	61.5	0.051	82.0	0.043
-1.4	0.960	6.8	0.612	21.0	0.188	41.5	0.077	62.0	0.057	82.5	0.040
-1.2	0.968	7.0	0.590	21.5	0.171	42.0	0.089	62.5	0.064	83.0	0.036
-1.0	0.975	7.2	0.569	22.0	0.152	42.5	0.100	63.0	0.070	83.5	0.032
-0.8	0.981	7.4	0.547	22.5	0.132	43.0	0.111	63.5	0.076	84.0	0.029
-0.6	0.986	7.6	0.525	23.0	0.110	43.5	0.120	64.0	0.081	84.5	0.025
-0.4	0.991	7.8	0.503	23.5	0.089	44.0	0.129	64.5	0.086	85.0	0.022
-0.2	0.994	8.0	0.481	24.0	0.066	44.5	0.136	65.0	0.090	85.5	0.019
0.0	0.997	8.2	0.459	24.5	0.044	45.0	0.143	65.5	0.094	86.0	0.016
0.2	0.999	8.4	0.436	25.0	0.022	45.5	0.149	66.0	0.098	86.5	0.013
0.4	1.000	8.6	0.414	25.5	0.002	46.0	0.153	66.5	0.101	87.0	0.010
0.6	1.000	8.8	0.392	26.0	0.020	46.5	0.156	67.0	0.103	87.5	0.008
0.8	0.999	9.0	0.370	26.5	0.039	47.0	0.158	67.5	0.105	88.0	0.006
1.0	0.997	9.2	0.348	27.0	0.057	47.5	0.159	68.0	0.107	88.5	0.004
1.2	0.994	9.4	0.326	27.5	0.074	48.0	0.159	68.5	0.108	89.0	0.002
1.4	0.991	9.6	0.305	28.0	0.089	48.5	0.158	69.0	0.109	89.5	0.001
1.6	0.986	9.8	0.283	28.5	0.103	49.0	0.156	69.5	0.110	90.0	0.000
1.8	0.981	10.0	0.262	29.0	0.115	49.5	0.153	70.0	0.110		
2.0	0.975	10.2	0.242	29.5	0.125	50.0	0.149	70.5	0.110		
2.2	0.968	10.4	0.222	30.0	0.132	50.5	0.145	71.0	0.109		

Remarks:

EXHIBIT 7

ERP - dBk



**DIELECTRIC THB-C3-5/15-1
DIRECTIONAL ANTENNA
ORIENTED WITH BEAM MAXIMUM AT 270 DEGREES
0.50 DEGREES ELECTRICAL BEAM TILT
MAXIMUM ANTENNA GAIN IN BEAM MAXIMUM 9.40 dB**

KESSLER & GEHMAN
TELECOMMUNICATIONS CONSULTING ENGINEERS
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

**WGTV-DT CHANNEL 4
ATHENS, GA**

1/24/2001

EXHIBIT 8

WGTV-DT CHANNEL 4

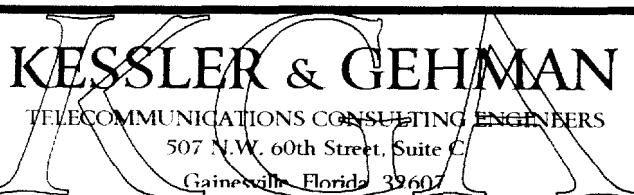
ATHENS, GEORGIA

TABULATION OF RELATIVE FIELDS FOR PROPOSED DIRECTIONAL ANTENNA

<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>	<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>
N000°E	0.843	N180°E	0.843
N010°E	0.758	N190°E	0.925
N020°E	0.708	N200°E	0.982
N030°E	0.649	N210°E	1.000
N040°E	0.546	N220°E	0.982
N050°E	0.435	N230°E	0.926
N060°E	0.421	N240°E	0.845
N070°E	0.458	N250°E	0.795
N080°E	0.484	N260°E	0.834
N090°E	0.493	N270°E	0.866
N100°E	0.484	N280°E	0.834
N110°E	0.458	N290°E	0.795
N120°E	0.421	N300°E	0.845
N130°E	0.435	N310°E	0.926
N140°E	0.546	N320°E	0.982
N150°E	0.649	N330°E	1.000
N160°E	0.708	N340°E	0.982
N170°E	0.758	N350°E	0.925

MINIMUM OF 0.421 AT N060°E & N120°E

MAXIMA OF 1.000 AT N210°E & N330°E



WGTV-DT CHANNEL 4
ATHENS, GA

1/24/2001

EXHIBIT 9

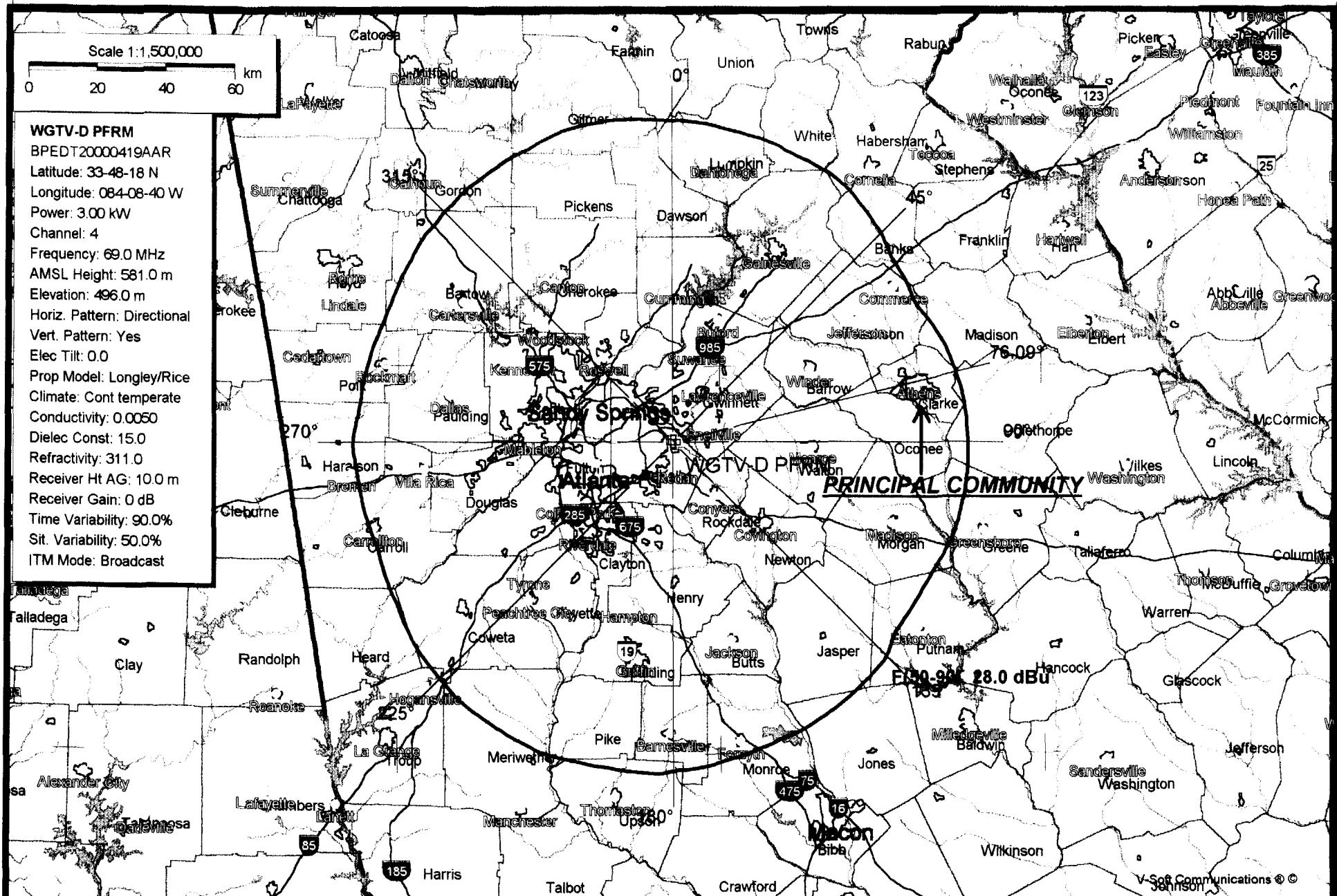


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1/24/2001

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ATHENS, GEORGIA

EXHIBIT 10



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**WGTV-DT CHANNEL 4
ATHENS, GA**

20010124

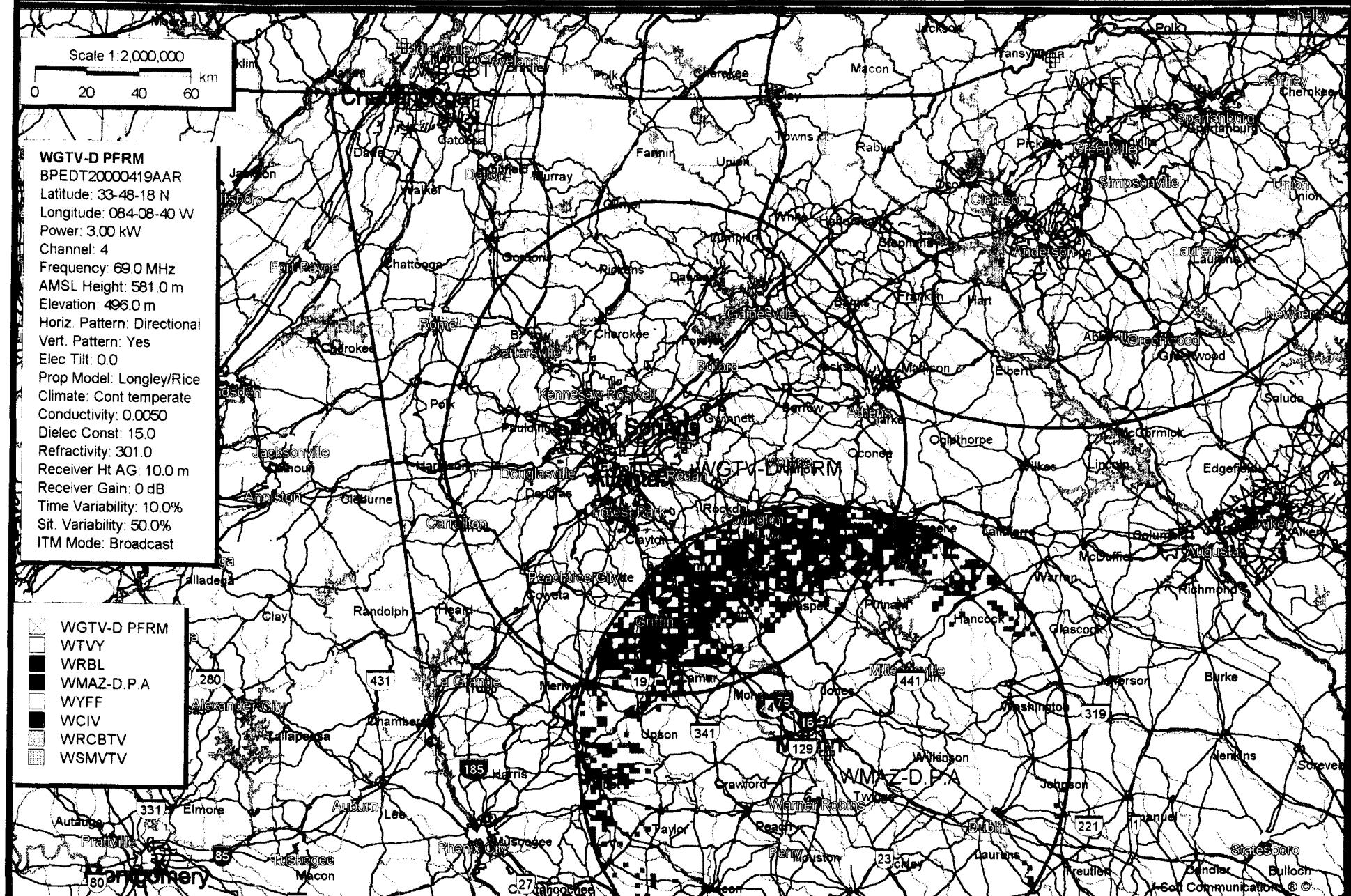
EXHIBIT 11

Scale 1:2,000,000

0 20 40 60 km

WGTV-D PFRM
BPEDT20000419AAR
Latitude: 33-48-18 N
Longitude: 084-08-40 W
Power: 3.00 kW
Channel: 4
Frequency: 69.0 MHz
AMSL Height: 581.0 m
Elevation: 496.0 m
Horiz. Pattern: Directional
Vert. Pattern: Yes
Elec Tilt: 0.0
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 301.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 10.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

- [] WGTV-D PFRM
- [] WTVY
- [] WRBL
- [] WMAZ-D.P.A
- [] WYFF
- [] WCIV
- [] WRCBTW
- [] WSMVTW



WGTV-DT CHANNEL 4 ATHENS, GA

20010122

EXHIBIT 12

V-Soft Communications Population Report

WGTV-D PFRM (4) Athens, GA
TV Outgoing Interference Study
Signal Resolution: 2 km
Consider NTSC Taboo: Yes
KWX error points are considered to
be interference free coverage.
of radials computed for contours: 72
Contours calculated using 8 radial HAAT.
LR Profile Spacing Increment: 1.0 km
Masked interference points are being
counted as interference.
Using NTSC lptv/translators D/U rules.

Study Date: 1/22/01

Stations which receive interference:

Call Letters	H Units	Population	Area (sq. km)
WTVY	3263	7222	273.67
WMAZ-D.P.A	41746	108244	4439.64
WYFF	27350	63528	2768.62
WSMVTV	385	989	47.82

Totals for WGTV-D PFRM

Total population to which interference is caused: 179983
Total number of housing units to which interference is caused:
72744

	Housing Units	Population
Georgia		
Banks County		
WYFF	2,500	6,092
Butts County		
WMAZ-D.P.A	4,184	11,939
Calhoun County		
WTVY	3	8
Clarke County		
WYFF	329	836
Crisp County		
WMAZ-D.P.A	1,035	2,796
Dodge County		
WMAZ-D.P.A	236	586
Dooly County		
WMAZ-D.P.A	164	240

Elbert County		
WYFF	1,505	3,747
Franklin County		
WYFF	808	1,897
Glascock County		
WMAZ-D.P.A	1	2
Greene County		
WMAZ-D.P.A	706	1,265
Habersham County		
WYFF	5,264	13,593
Hall County		
WYFF	2,174	5,531
Hancock County		
WMAZ-D.P.A	544	1,570
Hart County		
WYFF	58	149
Henry County		
WMAZ-D.P.A	2,716	7,515
Jackson County		
WYFF	3,517	8,835
Jasper County		
WMAZ-D.P.A	2,442	5,867
Johnson County		
WMAZ-D.P.A	30	78
Lamar County		
WMAZ-D.P.A	2,920	7,530
Laurens County		
WMAZ-D.P.A	29	62
Lincoln County		
WYFF	97	85
Macon County		
WMAZ-D.P.A	9	24
Madison County		
WYFF	4,693	11,882
Marion County		
WMAZ-D.P.A	113	272
Meriwether County		
WMAZ-D.P.A	71	160
Monroe County		
WMAZ-D.P.A	371	877
Morgan County		
WMAZ-D.P.A	1,834	4,698
Newton County		
WMAZ-D.P.A	2,333	6,110
Oglethorpe County		
WYFF	642	1,575
Pike County		
WMAZ-D.P.A	2,775	7,532
Putnam County		
WMAZ-D.P.A	732	1,379



WGTV-DT CHANNEL 4

20010122

ATHENS, GA

EXHIBIT 12A

Quitman County		
WTVY	55	81
Rabun County		
WYFF	1,125	1,308
Randolph County		
WTVY	13	33
Schley County		
WMAZ-D.P.A	151	397
Spalding County		
WMAZ-D.P.A	14,553	38,300
Stephens County		
WYFF	141	328
Sumter County		
WMAZ-D.P.A	521	1,086
Talbot County		
WMAZ-D.P.A	717	1,757
Taylor County		
WMAZ-D.P.A	50	109
Telfair County		
WMAZ-D.P.A	147	455
Towns County		
WYFF	13	25
Union County		
WYFF	15	33
Upson County		
WMAZ-D.P.A	2,259	5,373
Washington County		
WMAZ-D.P.A	28	52
Wheeler County		
WMAZ-D.P.A	51	144
White County		
WYFF	2,209	4,952
Wilcox County		
WMAZ-D.P.A	24	69
Wilkes County		
WYFF	326	695

	Housing Units	Population
Alabama		
Barbour County		
WTVY	2,816	6,755
Bullock County		
WTVY	40	103
Henry County		
WTVY	317	204
Pike County		
WTVY	19	38

	Housing Units	Population
South Carolina		
Abbeville County		
WYFF	7	12
Anderson County		
WYFF	32	77
McCormick County		
WYFF	240	512
Oconee County		
WYFF	26	52

	Housing Units	Population
North Carolina		
Clay County		
WYFF	15	33
Jackson County		
WYFF	21	0
Macon County		
WYFF	1,427	990
Yancey County		
WYFF	166	289

	Housing Units	Population
Tennessee		
Cannon County		
WSMVTV	3	8
Franklin County		
WSMVTV	255	716
Lincoln County		
WSMVTV	59	147
Moore County		
WSMVTV	68	118



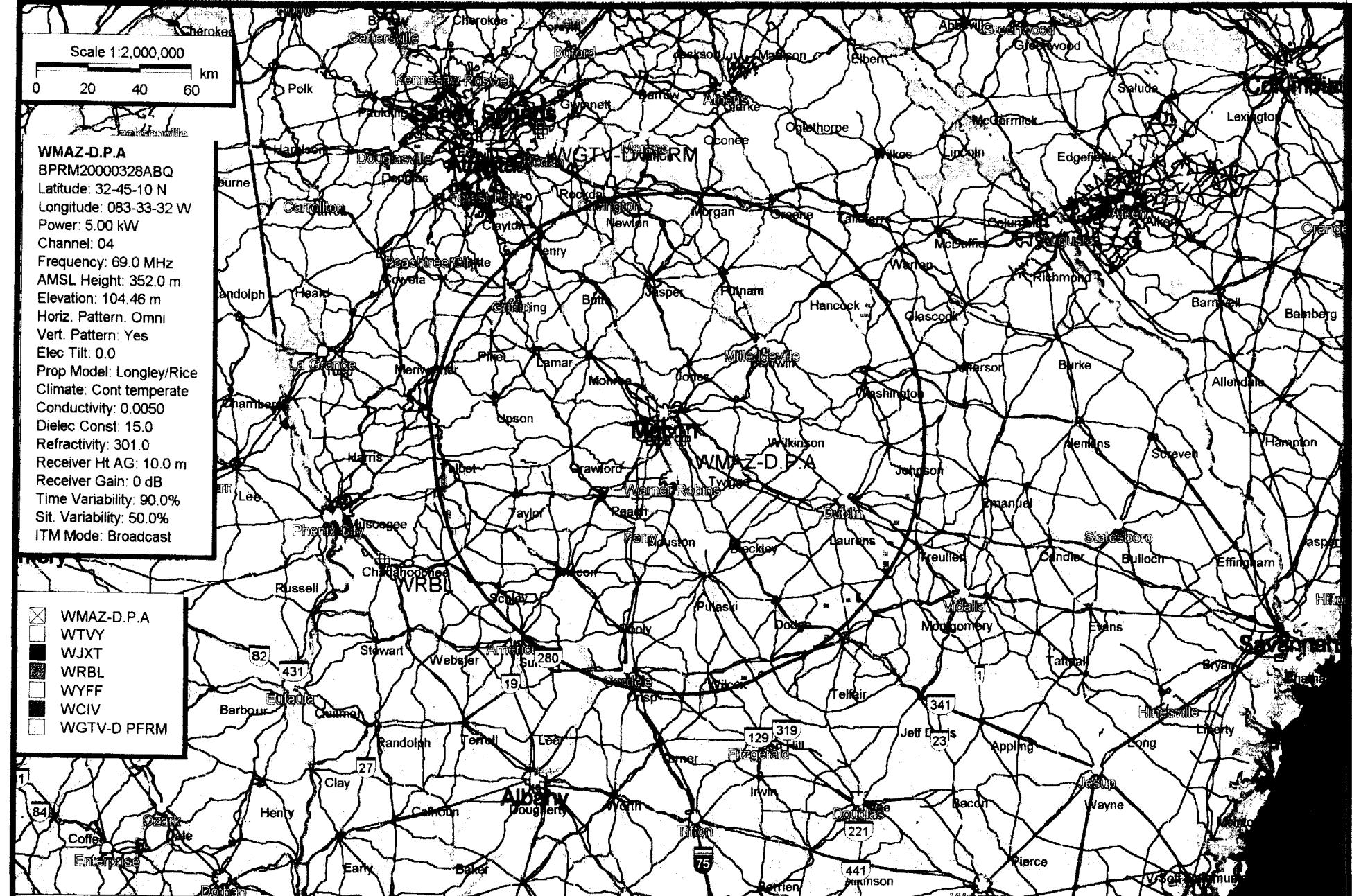
WGTV-DT CHANNEL 4
ATHENS, GA
20010122 EXHIBIT 12A

Scale 1:2,000,000
0 20 40 60 km

WMAZ-D.P.A
BPRM20000328ABQ
Latitude: 32-45-10 N
Longitude: 083-33-32 W
Power: 5.00 kW
Channel: 04
Frequency: 69.0 MHz
AMSL Height: 352.0 m
Elevation: 104.46 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 301.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 90.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

MAP

- WMAZ-D.P.A
- WTVY
- WJXT
- WRBL
- WYFF
- WCIV
- WGTV-D PFRM



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**WGTV-DT CHANNEL 4
ATHENS, GA**

20010122

EXHIBIT 13

V-Soft Communications Population Report

WMAZ-D.P.A (04) Macon, GA
TV Incoming Interference Study
Signal Resolution: 2 km
Consider NTSC Taboo: Yes

KWX error points are considered to be interference free coverage.
of radials computed for contours: 72
Contours calculated using 8 radial HAAT.
LR Profile Spacing Increment: 1.0 km
Interference considered within the reference station's noise limited contour.
Using NTSC lptv/translators D/U rules.
Threshold for reception: 28.0

Study Date: 1/22/01

Percentages calculated using a baseline population of 712,882.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WTVY (04Z)	3690	9213	1.292	527.43
WJXT (04+)	469	970	0.136	132.16
WRBL (03Z)	220	535	0.075	111.11
WYFF (04-)	7188	18387	2.579	1072.87
WCIV (04Z)	104	249	0.035	118.93

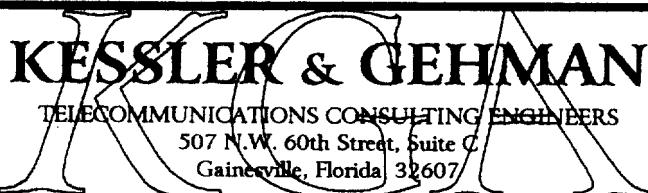
Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
WTVY (04Z)	9213	1.292	5200	0.729
WJXT (04+)	970	0.136	3	0.000
WRBL (03Z)	535	0.075	147	0.021
WYFF (04-)	18387	2.579	15355	2.154
WCIV (04Z)	249	0.035	19	0.003

Stations which were not considered:

WGTV-D PFRM (4)

Call Letters	City	State	Dist	Bear
WTVY (04Z)	Dothan	AL	289.8	226.0
WJXT (04+)	Jacksonville	FL	334.4	144.8
WRBL (03Z)	Columbus	GA	124.1	247.8
WYFF (04-)	Greenville	SC	276.0	18.4
WCIV (04Z)	Charleston	SC	361.8	85.9
WGTV-D PFRM (4)	Athens	GA	128.8	335.1



WGTV-DT CHANNEL 4

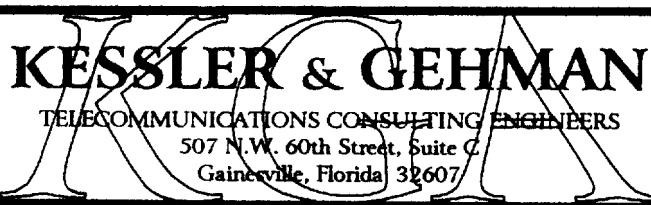
20010122

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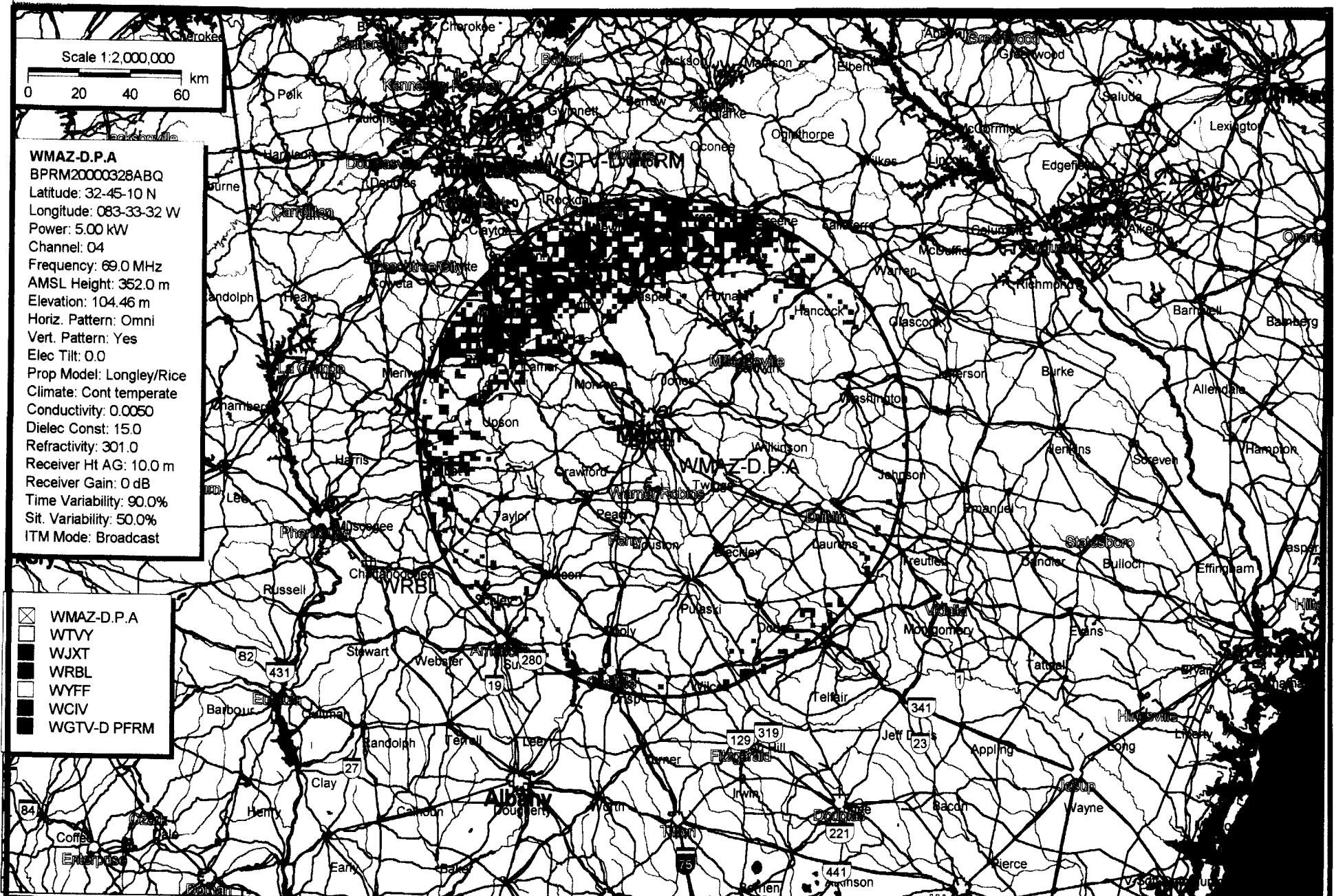
EXHIBIT 13A

Totals for WMAZ-D.P.A (04)

Calculation Area Population:	714,336	(28246.0 sq. km)
Not Affected by Terrain Loss:	707,726	(27967.3 sq. km)
Total NTSC Interference:	24,967	(1592.7 sq. km)
DTV Only Interference:	0	(-0.0 sq. km)
Total DTV Interference:	0	(0.0 sq. km)
Interfered Population:	24,967	(1592.7 sq. km)
Interference Free:	682,759	(26374.7 sq. km)
Percent Interference:	3.50	
Terrain Blocked Population:	6,610	(278.7 sq. km)
Contour Area Population:	712,882	



WGTV-DT CHANNEL 4
ATHENS, GA
20010122 EXHIBIT 13A



WGTV-DT CHANNEL 4
ATHENS, GA

20010122

EXHIBIT 14

V-Soft Communications Population Report

WMAZ-D.P.A (04) Macon, GA

TV Incoming Interference Study

Signal Resolution: 2 km

Consider NTSC Taboo: Yes

KWX error points are considered to be interference free coverage.

of radials computed for contours: 72

Contours calculated using 8 radial HAAT.

LR Profile Spacing Increment: 1.0 km

Interference considered within the reference station's noise limited contour.

Using NTSC lptv/translators D/U rules.

Threshold for reception: 28.0

Study Date: 1/22/01

Percentages calculated using a baseline population of 712,882.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WTVY (04Z)	3690	9213	1.292	527.43
WJXT (04+)	469	970	0.136	132.16
WRBL (03Z)	220	535	0.075	111.11
WYFF (04-)	7188	18387	2.579	1072.87
WCIV (04Z)	104	249	0.035	118.93
WGTV-D PFRM (4)	41746	108244	15.184	4439.64

Masking Summary:

Call Letters	Total Population	Interference %	Unique Population	Interference %
WTVY (04Z)	9213	1.292	3161	0.443
WJXT (04+)	970	0.136	3	0.000
WRBL (03Z)	535	0.075	0	0.000
WYFF (04-)	18387	2.579	1860	0.261
WCIV (04Z)	249	0.035	14	0.002
WGTV-D PFRM (4)	108244	15.184	88739	12.448

Call Letters	City	State	Dist	Bear
WTVY (04Z)	Dothan	AL	289.8	226.0
WJXT (04+)	Jacksonville	FL	334.4	144.8
WRBL (03Z)	Columbus	GA	124.1	247.8
WYFF (04-)	Greenville	SC	276.0	18.4
WCIV (04Z)	Charleston	SC	361.8	85.9
WGTV-D PFRM (4)	Athens	GA	128.8	335.1

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ATHENS, GA

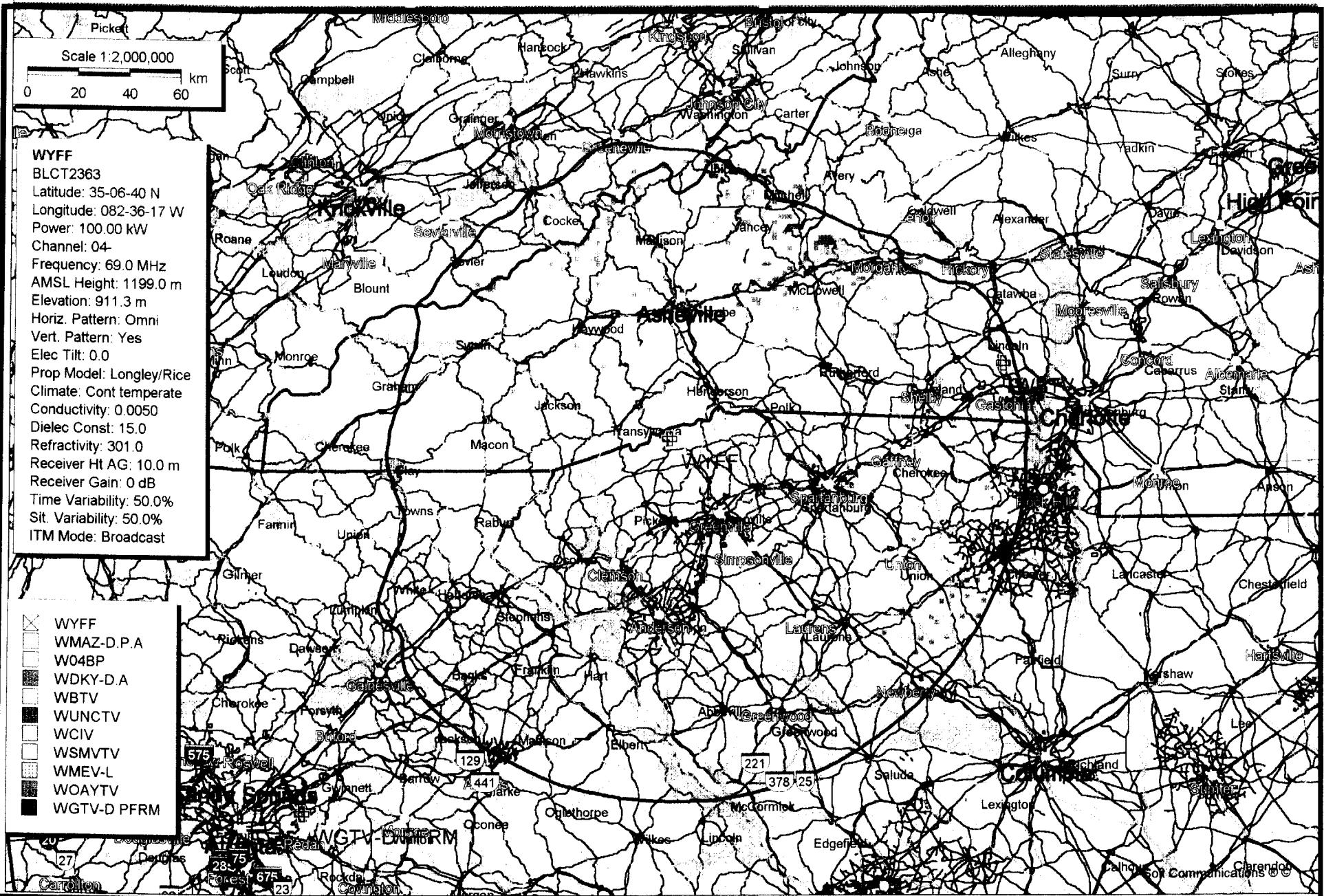
EXHIBIT 14A

Totals for WMAZ-D.P.A (04)

Calculation Area Population:	714,336	(28246.0 sq. km)
Not Affected by Terrain Loss:	707,726	(27967.3 sq. km)
Total NTSC Interference:	24,967	(1592.7 sq. km)
DTV Only Interference:	88,739	(3334.9 sq. km)
Total DTV Interference:	108,244	(4439.6 sq. km)
Interfered Population:	113,706	(4927.6 sq. km)
Interference Free:	594,020	(23039.7 sq. km)
Percent Interference:	15.95	
Terrain Blocked Population:	6,610	(278.7 sq. km)
Contour Area Population:	712,882	



WGTV-DT CHANNEL 4
ATHENS, GA
20010122 EXHIBIT 14A



WGTV-DT CHANNEL 4
ATHENS, GA

20010122

EXHIBIT 15